



PA QSO 2000 Six Weeks Away!

As we roll into September, plans for the Wireless Association's participation in October's Pennsylvania QSO Party are in full swing.

Like we did last year, plans are to send a team of operators to run club station WA3SH multi op/single transmitter from Rich and Carol Danko's cabin in Clarion County. During that operation, one or two teams of Mobiles or Rovers are planned to cover some of the surrounding counties, including nearby Forest and Jefferson.

If we have enough interest and operators, a second multi-op team will be sent out to activate N3SH. Locations in other nearby counties for this operation are being looked at — and we're not ruling out keeping N3SH "close to home" for those who can't take the time to gallop all over the countryside. (Then why use WA3SH at the cabin again? Simple — to be consistent with last year's successful foray. But, if we don't activate a second team, we may just use N3SH up in Clarion this year. Plenty of time left to decide that!)

PaQP veterans NØVLR, W3SRL, and WN3VAW amongst others are looking at operating Mobile or Rover on their own in addition to helping the club stations activate. K3VX may be challenging the CW prowess of W3WH (hmmm... two club calls, two competing club stations... that could be REAL interesting! <g>). N3KFD is looking at putting Library on the air, followed by N3ZNI & N3ZEL in 84. W3RJM & N3ZEN will be activating the Steel City ARC club station W3KWH for the duration. And we're really hoping to hear from the new NY Outpost, maybe even our Caribbean Outpost too (hint hint)!

All activity from WASH club stations and club members go into the Club Aggregate score in competition with other clubs from around the state. Plus, make 100+ QSO's (REAL easy to do Saturday afternoon on 40 meters) and you qualify for a PaQP coffee mug.

So what does this all mean? Just this: Operators are needed. No experience necessary, will "train on the job!" Don't worry about your license class if any — if you want to help, we'll find a space for you. The PA QSO Party is one of the biggest state QSO contests in the country and (IMHO) the most fun one to operate in!

73, Ron Notarius WN3VAW, President
Wireless Association of South Hills, Inc. N3SH/WA3SH

Next Meeting: September 14th, 2000

The next monthly meeting of the Wireless Association of South Hills, Inc. will be Thursday, September 14th, at the John McMillan Presbyterian Church, 875 Clifton Road in Bethel Park, starting at 7:00. As of deadline, we don't have a program for the evening set yet, though we're still working on one.

Talk-in on the 146.955 N3RNX/R Repeater. All members, guests and interested parties invited!

Greensburg Hamfest Runs Out of Steam

The Foothills ARC W3LWW reports in the August issue of their newsletter, *Little Words of Wisdom*, that they are converting the Greensburg Hamfest to a train show.

Several reasons were cited by Newsletter Editor & FARC Trustee Frank Rossi Jr. N3FLR. Logistics of a joint hamfest/train show were considerable with too many differences to be overcome, especially comparing free admission & main prize ticket sales at a hamfest to paid admission & vendor donated door prizes at a train show. FARC was also concerned about attracting an Amateur Radio vendor; "If the Breezeshooter's Hamfest can't get one, we won't either" stated N3FLR. The lack of a train show this year at the Greengate Mall was also cited in the decision.

FARC feels that their hamfest's purpose is to help keep their club "financially secure. To be able to buy and maintain our radio equipment. To pay all our bills, like insurance, newsletter postage, PO Box, Field Day and many others." By having a train show, they hope to have "Train Show people financing Amateur Radio" instead of hams funding fellow hams.

The Foothills ARC has not ruled out resuming a hamfest in the future, "but for now it looks like we can make more money with a Train Show. They are a hot item lately."

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Schedule of Events

- N3SH/WA3SH
WASH Club
Net, 9:00 PM
ET Sunday
Nights on the
146.955 &
443.650 Re-
peaters

LOOKING AHEAD:

- Last Pirate game at Three Rivers Stadium, Oct. 1st
- CA QSO Party Oct. 7th & 8th
- PA QSO Party Oct. 14th & 15th
- WASH VE Test Session October 19
- WASHFest 2001 Feb. 25th, 2001

September 2000

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 Elco RS Meeting	2 Uniontown Gabfest Nittany ARC Coffee Call RA Erie VE Test WPA Hilltoppers VE Test North Hills ARC Elmer Net
3 Elwood City ARC Meeting	4 Labor Day Greater Pgh VHFS Meeting Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co PS Net	5 Butler Co ARA Meeting Carnegie Tech RC Meeting SHBP&M Meeting Skyview RS Meeting	6 Uniontown ARC Meeting Steel City ARC Social Nite Allegheny Co Skywarn Net Allegheny Co ARES Net Westmoreland Co ARES	7 WACOM Meeting RA Erie Meeting	8	9 2 Rivers ARC Ham'n'Eggs Tri County CW ARC VE test North Hills ARC Elmer Net
10 Butler Hamfest Butler Co ARA VE Tests	11 Bun of the Month Lunch AR League of Lawrence Co Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co PS Net	12 Foothills ARC Meeting Nittany ARC Meeting Ft.Venango Mike & Key Mtg Punxsatawney Area ARC	13 North Hills ARC Meeting Steel City ARC Social Nite Allegheny Co ARES Net Westmoreland Co ARES	14 WASH Meeting Horseshoe ARC Meeting Beaver Valley ARA Meeting Triple 'A' ARA VE Tests	15 2 Rivers ARC Meeting W9DXCC Convention	16 Nittany ARC Coffee Call North Hills ARC Elmer Net W9DXCC Convention
17 Elk County ARC Meeting	18 Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co PS Net Steel City ARC VE Tests	19 Steel City ARC Meeting Skyview RS Meeting McKean Co ARC Meeting Pymatuning ARC Meeting Juniata Valley ARC Meeting	20 Huntingdon Co ARC Mtng. Allegheny Co Skywarn Net Allegheny Co ARES Net Westmoreland Co ARES	21 Triple 'A' ARA Meeting Somerset Co ARC Meeting	22	23 North Hills ARC Elmer Net
24 FAR Hamfest	25 Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co PS Net	26 Mercer Co ARC Meeting Triangle ARC Meeting	27 North Hills ARC Activity Skywarn Training Class Steel City ARC Social Nite Allegheny Co ARES Net Westmoreland Co ARES	28 WACOM Board Meeting	29	30 PA QSO Party 2 Weeks Away! Nittany ARC Coffee Call North Hills ARC Elmer Net

WASH 2000 OFFICERS

Executive Committee:

President Ron Notarius WN3VAW
VP/Secretary Steve Lane W3SRL
VP/Treasurer Mark Stabryla N3RDV

And We Couldn't Do It Without:

N3SH / WA3SH Trustee Steve Lane W3SRL
N3SH / WA3SH QSL Manager Paul Lusardi NØVLR
VE Team Liaison Bob Sanford AA3FI
Club Communications & Webmaster Bob Sanford AA3FI
Club Quartermaster Harold Rosenberger KB3CPI
N3SH/WA3SH WASH Net Managers
2 Meter FM Greg Babin KQ3DX
10 Meter Digital [Net Currently on Hiatus]
South Hills Hamfest Co-Chairman Steve Lane W3SRL
(**WASHfest 2001**)
Field Day 2001 Chairman Bill Hill WV3WH
Ways & Means Carol Danko

Club-Affiliated Repeaters:

Mt. Lebanon	N3RNX/R	146.955 -	PL 131.8
Mt. Lebanon	W3SRL/R	442.550 +	PL 131.8
Canonsburg	N3FFP/R	443.650 +	PL 131.8

N3SH/WA3SH WASHNet, the weekly on-air net of WASH, meets every Sunday Night, 9:00 PM ET, on the 146.955 repeater, usually followed by the 10 Meter SSB Informal Net on 28.469 MHz. The **10 Meter Digital N3SH/WA3SH WASHNet** meets on 28.105 MHz at 9:30 PM ET, starting with RTTY. (Frequencies are +/- QRM). All radio amateurs, WASH members or not, are welcome to join in!

THE LEGAL STUFF

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Comments, articles, and requests for copies of or information about **"The WASHRag™"** should be mailed to the editor:
Ron Notarius WN3VAW,
3505 Rosalia Avenue, Castle Shannon, PA 15234-2317.
Email: wn3vaw@fyi.net, wn3vaw@qsl.net or wn3vaw@arrl.net

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As always, special thanks to the owners of both the N3RNX/R Repeater System and the N3FFP/R Repeater System for permitting the **Wireless Association of South Hills, Inc.** and it's members to use their repeaters for club purposes.

WASH Amateur Radio Club News Briefs

Next WASH VE Test October 19th!

Our Next VE exam sessions will be **Thursday, October 19th, 2000**, at **7:00 PM**, at the *John McMillan Presbyterian Church*, 875 Clifton Road, Bethel Park, PA. Talk-in on 146.955 MHz. All examiners are ARRL VEC affiliated. Morse code exams are multiple-choice. Walk-ins are always welcome, but if you plan on attending the test session, please contact VE Team Liason Bob Sanford AA3FI: Telephone (724)-356-4020 or E-Mail: sanfordb@access.hky.com

Please bring the following to your test session:
 Picture ID or other suitable identification (2 forms of ID required)
 Pen / Pencil / Calculator
 Original FCC license plus a copy of license (if upgrading)
 Original CSCE plus a copy of CSCE (if upgrading)
 Check or Cash in the amount of \$6.65 (payable to: ARRL VEC)

As most of you know by now, Dr. John Benitez KE3XB left UPMC several weeks ago, and has accepted a new position in Rochester NY. John and his wife Lin N3YPB are leaving the Pittsburgh area for good.

As noted in the minutes, our annual August picnic was a big success with a great turnout of club members, families, and guests.

The entire club would like to thank Ed Wolf N3UE, Dolly Cerciello, and the rest of Ed's family for hosting the club at their family home in Bridgeville!

Dr. John has been one of the club's backbones during the last few years, going back to our earliest days as one of the first members of (then) SHARC. He's been one of our more traveled members, visiting and operating from DX locations many of us can only dream of. And he's been one of the club's experimenters, often being amongst the first (if not the first) to dabble in new modes or operating techniques. Our 10 meter Digital net exists primarily because of John's active interest in promoting and developing digital modes, and has not been the same without his active support.

Lin has been one of our quieter members. But she's also always been there when we needed the help. Most folks know her from running the WASHfest '99 kitchen, which received high marks from just about every hamfest attendee that year.

We're going to miss both of you guys.

73, Ron Notarius WN3VAW

[PS: But John, you're STILL on the hook for your contributions to the Club Aggregate score in the 2000 PA QSO Party! Let's see, are you in WNY or NNY section now, or will you be QRV in Vermont instead?]

Butler Hamfest: Yes, we're having a mini-picnic again at the Butler Hamfest, starting at about 11:30. All WASH members, friends, and guests are welcome. The club is providing burgers & dogs, and again, we're asking everyone coming to bring something — chips, pretzels, watermelon, etc. Contact WN3VAW or KA3UPY if you're coming & let them know what you can bring.

Field Day 2000 Pins: Mark N3RDV is still holding a few Field Day pins. If you haven't gotten yours yet, please make arrangements with him to get it... his arm's getting tired...

New Club Computer!: WASH wishes to thank Mike Serowik N3BSQ and his family for donating a laptop computer, a Compaq Armada 4120, to us. It's a Pentium 120 with 48 MB of RAM, a 1 GB hard drive, CD-ROM drive and sound built in. The laptop will be used for logging and other purposes at our contesting and operating events; PSK31, RTTY & other digital mode operating; and most anything else we can think of. Paul NØVLR is currently custodian of the laptop, so if you would like to borrow it, please see Paul or the club Quartermaster, Harold KB3CPI. And if anyone has one or both of these, we are also looking for an external mouse and a keyboard/mouse "Y" adapter for the unit, and the 12 Volt DC adapter for it to run off external (car) battery. — NØVLR

The Hunt is Still On: Ed N3ZNI is still working on the final touches for our proposed January club contest. We still need a better name than "Shark Hunt" for it. Hope to have details in next month's newsletter; meanwhile, if you have any questions or anything you want to add, contact Ed for more information.

DX Is! Were you one of the lucky one's on HF the weekend of August 19th & 20th? Sufficient to say, 10 15 & 20 were open like they haven't been in 10+ years; when was the last time you heard 15 open to Asiatic Russia and Japan at 1:30 AM local time? The biggest thrill may have been from some of the experienced DX'ers in the club feeding frequencies and other tips to some of our DX & HF newcomers, and hearing them break the pileups for all time new ones! While there hasn't been an official DX spotting voice repeater in the Pittsburgh area in many years, if you do hear a band opening, give a shout on .955 or one of the 440 machines. You never know when you'll be helping out a new deserving DX'er!

And speaking of the 440 Repeaters, Thanks to Brett N3FFP for setting up the 443.650 machine to link with 146.955 during morning and evening rush hours. Some of the "black holes" in local terrain has caused in .955's coverage area now filled in very well by .650.

The WASHRag Distribution conversion continues as we put more and more of our club members and other newsletter recipients on our email mailing list. We've already close to cutting the postage bill almost in half from this alone. However, if you are a Juno user, you may have trouble receiving the .PDF files, so you'll continue to get the paper copy for the time being.

Did you know That WASHfest 2001 is roughly 6 months away?

Are your 2000 WASH Dues Paid? If you're not in the Page 4 list please contact N3RDV — ASAP!
Join the new WASH Reflector & stay up to date! n3sh-subscribe@egroups.com

Minutes, August 27th Meeting

Steve Lane W3SRL, Vice President/Secretary WASH

Meeting was called to order by W3VAW at 15:12 local time. There were ~35 members, their families, and guests present.

A moment of silence was observed for silent keys.

W3WH motioned that we accept the minutes of the July meeting as published in the WASHrag. Seconded by W3RJM and carried.

Treasurer's report was read and approved.

Secretary: No Report (W3SRL on vacation)

VE Team: N3XI will run the next VE session on October 19, 2000.

2 Meter Net: KQ3DX needs net controls.

Repeater: N3RX reports insurance renewal bill came in.

Contests: PA QSO Party: N3SBF will be making his cabin available again. Operators needed for WA3SH Clarion Co operation, possible N3SH portable operation elsewhere. All member encouraged to be on the air during the party. Club's plaque sponsorship renewal due.

WASHFest 2001: Planning to hold forums and doing some other things to attract attendance, ideas to W3SRL. W3WH will be co-chairman again this year. Carol Danko will head kitchen detail but will **not** cook!

Newsletter: Most members with email converted to electronic list, there is a problem with Juno accounts, they will still get paper copy. Monthly postage costs dropped from about \$40 to \$25 as a result. More of the mailing list will be converted to cut costs & get the newsletter out faster.

President: Certificates of Thanks to KE3XB & N3YPB will be presented.

Old Business: None.

New business: None.

Good of the order: A club picnic will be held at the Butler Hamfest.

Introductions were made as some members and guests arrived late.

Meeting adjourned at 15:25: W3RJM, KA3WZO second & carried.

Picnic proceeded and a great time was had by all!

N3SH US Island's Expedition to Herr's Island Wrap-Up

Paul Lusardi NØVLR



Poor propagation (113 or so Solar Index) hampered the 2nd WASH Expedition to Herr's Island (Washington's Landing), USI # PA022R, on August 12th, still, a good time was had by all. We made 24 contacts; 5 of them were other island stations. We contacted 15 different states/provinces (MS NC TX GA KY ME PA IA PQ IL IN WI KS MI CO) for a grand total of 44 QSO points X 15 mult. = 660 contest points.



Operating crew consisted of KE3XB, KB3ENX, N3RNX, NØVLR, N3ZEL, N3ZNI, W3RJM, W3SRL, and, of course, W3WH.

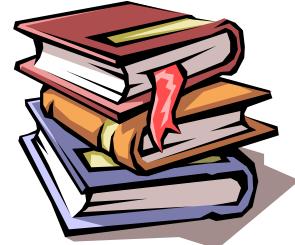
Antenna compliment included a ground mounted outbacker, the Hex beam on 15, then 20; Steve's SGC tuner/long

wire; and I think there may have been one more off the bridge - can't remember what it was...

[I still think we should have "lit up" the bridge as a 160M antenna :)]

John On Books

Dr. John Benitez KE3XB/2 [NY1VT?]



Code Breaking: A History and

Exploration Rudolf Kippenhahn

(Translated from original in German, with help from Ewald Osers)

The Overlook Press, Woodstock, NY, 1999, \$29.95

Code Breaking is a book that traces the development of cryptology. The author is a mathematician and professor of astronomy and astrophysics. He developed an interest in cryptography when he realized how much mathematics and cryptography overlapped. The general style of his book is easy to read and very fascinating. The English translation is done very well, and he uses good examples that are understood by US readers. He basically covers historical examples of cryptography through the ages along with specific examples of the people using cryptography and how it was used against other people.

The book is divided into 13 chapters and each chapter has at least one or two unique, classical examples where cryptography was used. It covers history from Julius Caesar's time, William Shakespeare's time and extends through to the more modern times of WWI, WWII, and the present. It also discusses the current controversy of Internet security and encryption. Who should be in control? Should the average citizen be able to use the highest level encryption? Is this good for individuals or society?

I greatly enjoyed the chapters on the Enigma machine developed in Germany. The story of how it was deciphered was excellent and I'll leave to you to read it. Some of the examples he showed were actually ways for a man and woman to meet without anyone else knowing!

The book has four appendices which were great: 1) a homemade encrypting machine, 2) your computer as Enigma, 3) How the three magic key numbers are determined (you'll have to read the chapter on this to see how these are used), and 4) PGP, the encryption program from the Internet.

If you have seen the movie U-571 recently you will appreciate parts of this book. It covers how some secrets were intercepted, or how some codes were broken. I highly recommend this book!

Wireless Association — 2000 Membership

AA3FI	KO3DX	N3TBK	N3ZEL	W3WH
AA3JS	NØVLR	N3TES	N3ZNI	WB3BPH
K3LIE	N2QIV	N3UE	N4MIS	WN3BOJ
K3VX	N3BSQ	N3UIW	NP2JF	WN3VAW
KA3JZR	N3CCC	N3VEH	W3HND	Carol Danko
KA3TWI	N3IDH	N3VVL	W3RJM	Dan Mohr
KA3WZO	N3KEH	N3VWF	W3SRL	JoAnn Cottrell
KB3CPI	N3KFD	N3WPT	W3VFA	Marilyn Nizinski
KB3DCO	N3MJQ	N3XFE		
KB3DSB	N3OBD	N3XI		2000 Annual Dues Paid Through
KB3DSD	N3QMV	N3YPB		August 30 th
KB3ECD	N3RDV	N3YQY		
KB3ENX	N3RHT	N3ZCG		List complied by
KB3FBG	N3RNX	N3ZEG		Mark Stabryla N3RDV
KE3XB	N3SBF	N3ZEH		Vice President/Treasurer

Hollow State Ramblings

I guess I should come clean and admit that I've made probably every mistake there is to make in this hobby. I'm not talking about frying a power transformer or transmitting full power at the same frequency one of my receivers was tuned to. I'm referring more to the process of managing the balance between life and hobby. And just some of my lessons would be valuable to you, I want to use this column to go over a bit of what I have learned from doing it the hard way.

It is not either difficult or expensive to accumulate a lot of boatanchors today. Anyone with even a modest amount of hobby cash to spend can find themselves with a basement full of stuff in a few short years. The average age of licensed hams now is somewhere around 57 years old.

Just think of the incredible mountains of radio equipment that will change hands over the next 10 years as these folks retire and begin to cut back their lifestyle.

Managing a boatanchor collection is like almost all collections. The difference is that the equipment sometimes needs repairs and restoration. And many of us also want to use it on the air. But otherwise, it's a typical collecting cycle of accumulation, management, and eventual disposal. Let me relate some of my mistakes in each of these areas.

Accumulation is the fun, easy part, right? You just buy everything you want and can afford. Well, this was my approach and I can say from experience that the answer here is "not if you're smart about it." Try to plan your accumulation by deciding where your interests really lie — because it is certain that you can't collect everything. The hobby is way too big for that.

Are you accumulating out of nostalgia for when you were new to ham radio? Or are you a military buff who wants to duplicate the radio room of the battleship Missouri? Or maybe you're a CW man that wants to run a rig like his granddaddy's. Maybe you're fascinated with Hallicrafters radios like the one your parents gave you as a kid and you want to collect Hallicrafters sets exclusively. Maybe you're a tech nerd into old technology who wants to collect examples of vacuum tubes—the more exotic, the better.

Whatever your goals, your accumulating will go most smoothly if you keep those goals in mind. Your collection will have a logical focus. Buying decisions become easier and your wallet will stay a bit heavier. Plus, your hobby makes more sense to the people that have to live with you. But this approach takes real discipline because it's tough to pass up a "deal" just because the item doesn't fit your grand plan.

As you accumulate, consider how you want the collection to be managed. Will the gear be set up, ready to operate? Or on display? Or some on display and some in storage? What kind of shelving and storage space will you require? Will you take on big restoration projects (do you have the time and talent)? Small ones?



Don Merz N3RHT

Or do you want everything to be usable and displayable from the moment it comes in the door? What reference materials do you want to keep on hand? Service information? Operating manuals? Period catalogs showing items in your collection? Collector books listing and picturing stuff you are interested in? How will this stuff be organized?

Finally, you should also consider the thorny issue of disposing of the collection. The basic rule of thumb is that you have to think it through. You must develop a set of instructions on how to properly dispose of your collection and discuss these with your potential heirs. You must also keep the collection disposable. In other words, don't let it get too big and/or so messy that it can't properly be disposed of by anyone except you.

I know one collector about my age that has a great job with the government and travels the world. He lives with his family in a 2-bedroom townhouse. He loves boatanchors but has neither the room nor time to devote to a displayable collection. So what he does is constantly accumulate. Since he is always traveling, he buys boatanchors on his trips. Then, to save shipping costs he stores them in whichever of his 3 "self-storage" buildings that he is closest to. He now has one on the West Coast, one here in the east and one in Texas—all full of boatanchors. How would his family ever deal with this in the event of his death?

You should also consider telling your heirs that disposal of your collection should be handled by someone (who we designate in advance and who has agreed to do this for us) who is knowledgeable about boatanchors. Too often, disposal is left to 1) a relative who is not a ham and has no knowledge of electronics, or 2) a dealer who just wants to get the most money out of the "estate" s/he purchased. In both cases, this often leads to accessories, spare tubes, manuals and so forth being separated from the equipment. Plus, the "junk" parts, caps, coils, knobs etc. are sometimes thrown away because it takes some effort to find the "right" buyer--and the disposers are always in a hurry.

Personally, though it wasn't always this way, I now keep my relatively modest collection scrupulously inventoried, including all accessories, manuals and so forth. The inventory information is in a file and I go over the file once a year or so with my 2 older sons who razz me mercilessly during this process. But I make them sit through it--just like I walk the whole family through the location of all the smoke detectors, fire extinguishers and escape routes every so often and they all act like I should be committed to the funny farm for that. But I'm beyond embarrassment about these simple precautions.

I also have some established boatanchor friendships that I think I can count on. And I decided right up front that the object of the game isn't to make sure my estate realizes top dollar for the gear. It's just to get an average price and successfully pass on the custodianship of this wonderful stuff to the next generation.

And I have taken one other useful lesson from my collecting experience so far: Some of the most useful things I learn as I get older are often not even things that I realized I needed to know.

QSL via Bureau — Box 88, Moscow

Andrei Loginov RW4NM / UE4NNN rw4nm@ezmail.ru

I hope to explain the situation with QSL exchange inside Russia. At least, I know how it is in my area (Number 4).

The QSL bureau restarted working last autumn (via the well-known post Box 88 in Moscow *). Now I monthly receive the QSLs via the bureau for QSOs 1998-1999. If I will send my QSL today via the bureau, it comes to USA in the beginning of 2001. The direct mail takes 15-20 days.

The worst one is that some Russian Hams do not send their own QSLs. There are many causes: the changes of call-sign prefixes in 1994, a big migration of population, the long period of time when Box 88 was closed etc. So I may say: if you did not receive the QSL it does not mean that your QSL was lost. This case neither Green Stamps nor IRC can help you.

I repeat, the bureau really works but with a big delay. The most slowest bureau is in Siberian and Far East region.

By the way, I've published the on-line logs for RW4NM/UE4NNN where the QSL status is indicated (QSL received, QSL sent - yes/no). Anyone can see what happens with his QSL now. Hope it saves some money and nerves for my radio correspondents. (Visit www.qsl.net/rw4nm)

* Central Radio Club of the Russian Federation, Post Office Box 88, Moscow 123459, Russia

Speaking of Working the Russians...

During the late 1970's, as an Electronics Material Officer in the U.S. Navy, I was assigned to a Naval Security Group Activity (Navy's electronic spies) at a remote base in Southeast Virginia. I was quite active on the air then and many of the QSL's I sent were to Russia (via bureau mind you).

One day at work I got a visit from two nicely dressed gentlemen who flashed impressive badges/ID's from the CIA and NIS. They wanted to know why I was sending and receiving all this mail to/from Russia via a third party in Sterling, Va. (QSL Bureau). They had intercepted the mail (opened it, scanned it, X-rayed it ??) and indicated that it was conveying some electronic communications data and they really wanted to know the story because evidently, all their experts could not figure it out.

— Larry Duncan K4WLS

I had a Government job requiring a security clearance back in the Mid '80s, and when interviewed by the security officer, asked, almost jokingly, if DX contacts with Russian stations, required reporting. I'd gladly bring my log book in if necessary. He said thanks for bringing it up, and that it should have been brought up, but not to worry; it would not risk my clearance, but would have raised eyebrows amongst his clan if I had not mentioned it.... — Pat Barthelow AA6EG

One of my neighbors had a party last June for his daughter's graduation. While there, I was sitting next to his dad, a retired CIA guy. I mentioned I had just returned from Bhutan. When he found out I was there to operate ham radio sat up and said "Oh, is the ARRL still in Connecticut?" I said yes, amazed that not being a ham he had heard of the ARRL.

Seems one of his assignments in the '60s was to examine the mail coming into the ARRL from Box 88 and they would plot all the Russians hams on a big map of the USSR. Why? Because the clusters of CW hams in Russia usually pointed to military or KGB listening posts. Amazing isn't it? All of us CW ops in the 60s were indirectly working for our intelligence agencies — Don Greenbaum N1DG (ex-WB2DND)

Butler County ARA Hamfest

Sunday, September 10th at the Butler Farm Show Grounds, Butler PA

Admission \$6.00 per person, kids under 12 free!
Acres & Acres of Flea Market Spaces at \$2.



Over 100 Tables in Two Modern Buildings for Indoor Vendors

Talk-In on W3UDX/R 147.36+
Mobile Check-Ins on 146.520 Simplex

Special Event Callsign **N1H**
Number One Hamfest!
Mail general inquiries to BCARA, PO Box 1787, Butler PA 16003-1787

(This space was being reserved to list the prizes available but as of deadline nothing was posted on the BCARA web site and nothing had come in the mail. Sorry about that...)



Breezeshooters 2000-2001 Officers

Congratulations to the new Breezeshooters officers elected at the summer picnic on July 30th:
President N3UE Ed Wolf
VP. N3LWP Bob Benna
Secretary N3ZEN Nancy Gastel
Treasurer N3BPB Bill Kristoff Jr.
Checker WA3FTS Jack Stoner

Directors:
 W3TAM Bill Gross (1 year)
 N3TXH Ernie Iezzi (1 year)
 N3WJM Steve Horan (1 year)
 AA3RZ Don Sambol (2 years)
 AA3TA Joe Springer (2 yrs)
 WB3LBX Joe Hankle (2 years)

FYI Networks

FYI Networks, an Internet Service Provider in Pittsburgh and surrounding areas since 1995, is offering all members of WASH their Basic Internet account for only \$18/month. This includes one e-mail box, 3 MB of disk space, web page hosting, Telnet & FTP access. Call FYI toll-free at 1-877-FYI-4NET, or e-mail them at sales@fyi.net, for more details or to sign up. You must mention that you are a member of the Wireless Association of South Hills to get the discount rate.

Many thanks to FYI Networks for making this special offer available to us for the past two years!



HF Antennas on a Shoestring: [Or, The Animated Ramblings of a Cheapskate Ham]

Few things in the amateur radio hobby are as ignored or misunderstood as the subject of antenna gain. The ARRL antenna book defines antenna gain as: "The increase in effective radiated power in the desired direction of the major lobe." But what does this really mean?

At the risk of greatly over-simplifying things, Here goes:

A gain antenna has the effect of amplifying your transmitted (and received!) signal by an amount proportional to the gain factor of the antenna. A quarter-wave antenna has no gain. A 3dB antenna will effectively double your Effective Radiated Power (ERP) and a 6dB stick will effectively quadruple your power output and received signal strength.

Hmmmm.

So you mean to tell me that if I am running a 50-watt mobile and a 3dB stick, than I am really putting out 100 watts? Well, yes... and no. Any feedline losses inherent to the system need to be subtracted from the overall system gain. These figures vary widely according to the coax used and the length in use. The manufacturer or distributor can give you the info you need on the loss of the cable to calculate things accurately. Here is the formula for the whole enchilada:

$$\text{ERP} = \text{Tx Power} - \text{Feedline Loss} + \text{Antenna Gain}$$

It doesn't take a rocket scientist here to realize that a 5-watt HT into a $\frac{1}{4}$ -wave mag-mount isn't going to be as solid into a repeater as a 6dB mobile antenna fed by 50-watts worth of mobile rig. You could only be putting out 1-2 watts ERP, depending on the coax used.

Question: does it matter WHERE on my car I place a new antenna? YES, YES!!!!

A mobile antenna should be located as high and clear as possible. Centered in the middle of the roof provides good omnidirectional coverage. A 6- or 9-dB gain antenna should SCREAM from there. Placing the same antenna on the right rear bumper will detune the antenna somewhat due to the lower position, in relation to how it worked on the roof. The omnidirectional pattern also gets skewed, with the biggest lobe pointing diagonally over the left front bumper of the car. Likewise, it will tend to attenuate signal off to the sides. Mounting the same antenna on the left-front fender will send the majority of the signal back over the right rear fender.

So what is the moral of the story? You can never be too rich, or have too much antenna gain.

An as the real estate people say, Location, Location, LOCATION!!! Seriously though, it is very true. The laws of physics don't lie.

One other tidbit I'll mention before signing off this month: Antennas are rated in terms of dBi or dBd ratings. dBi refers to a perfect Isotropic antenna in free space. dBd refers to the gain factor in



Antenna Gain

Steve Lane W3SRL

relation to a dipole in 'the real world'. dBd is always less than the same antenna is rated for dBi (usually $2\frac{1}{2}$ to 3 dB less. *Keep in mind that there is no such thing as an "isotropic" antenna — Ed.*) This takes into account the losses inherent in our world. Do not confuse the two. Remember to compare apples to apples and mangos to mangos, err, well, you know what I mean.

An Exciting Morning on HF

Ken Harker WM5R courtesy of eHam.net

Members of the University of Texas Amateur Radio Club have made many memorable QSOs over the years. One, in particular, has been talked about ever since...

On the morning of October 25, 1983 at 9:00 AM, Felix Kneuper WB5NED needed a break. He had been studying for a test in the club shack, and decided to turn on the radio to see what he could find on the bands. He found a DX station on the island of Grenada calling CQ, and he answered.

Felix was quickly informed that the island was being invaded by the U. S. military! As he listened to the DX station, he could hear jet airplanes in the background.

Felix's first thought was to help spread this late breaking news as quickly as possible. He got on the W5EBJ (now W5HS) repeater, and made an autopatch call to the Daily Texan student newspaper. Felix



identified himself as President of the club, and informed them of the information he had just received. The staff at the Daily Texan seemed unimpressed. They indicated that they did not have any reporters available to check out the story, and considered it a probable fraud since they had not received any information about such an invasion from the news wire.

Other Amateurs on the band at the time quickly jumped in to try and make contact with the Grenadan station. Eventually, a ham from ABC News grabbed control of the communications and effectively locked everyone else, including Felix, out of the loop.

By chance, another Amateur happened to be monitoring the W5EBJ repeater in Austin when Felix made his phone patch to the Daily Texan. This Amateur also happened to be an engineer at KXAN TV channel 36. Within minutes, a news crew was at the W5EHM shack, and Felix recounted the events of the day, giving UTARC some good exposure.

The editor of the Daily Texan called Felix the next day, and asked why Felix had not phoned them first!

Available: DX Shack in HSØ

Charles Harpole K4VUD/HSØZCW

Jon, **HS1CHB**, has a nice Bangkok shack that he "lets out" to legitimate ham operators. It has three tri-banders and dipoles on roof of a 12 story apartment building. If you ask to go there, please volunteer a NICE gift to the station (ham gear) or volunteer to make a good cash donation to his electric bill, etc. Thais are very polite so you will have to bring up the subject of recompense. He is also looking for Kenwood TS-50 rigs...this specific rig is ok-ed by the government, I think.

Contact Jon at 589-2550 or 940-1365 ext 90 or Chad (station resident) at 981-3269. All these are Bangkok, Thailand telephone numbers. If those do not work, try Tony Waltham (a ham who works at the Bangkok POST newspaper) at 235-1120.

Jon did NOT ask me to make this notice, but several folks have asked me at once about contacting him. Please do not pester Jon or Tony for skeds etc. As they say, "serious inquiries only."

BTW, you will need to get a Thai license or op permission PRIOR to any operations. Also, get good advice about the legality of taking a ham transmitter into Thailand prior to doing so. Ask Ray of RAST (see his recent news postings).

It's very interesting to look at conversations of people having difficulties receiving QSL cards from active Dxers. I sit here and wonder why, when almost every one of these people being complained about have QSL'd to me just fine and in many cases been the first to send.

Something has to be wrong in the process. Especially when everyone who knows me knows that I rarely bother to send for a card. Almost all my cards went out to bureau replies.

It has been probably 6-7 years since the "cricks" on Jim's DXCC list (KH2D DX Reflector) have really meant much to me. As I tell others, the personal greeting back from a DXpeditioner is about all that has much meaning for me during pileups now.

What will help you more in getting cards is not being someone's "crick" but to leave an impression on the person on the other end. Leave the other operator something to keep you in his mind in a positive way either to QSL you back or better yet to initiate his own to you.

When EP2MKO first came on the air I ran him in a list to help him get started. I even ran a DX net off from starting 2 kHz away as I wasn't going to bust up his run when everyone was organized and working well. I got my card just by discussing the mailing over the air.

Hearing Herick FR5DX on the air, I worked him on many bands. It still amazes friends that I have his card for 75 SSB and other bands when they are waiting. Nothing different other than having just worked the man a few times and always said hello. What I have heard from friends is that Herick has a laptop now and that over the past year many people are finding bureau cards from him for several bands and modes dating as much as 10 years back.

F6FNU is another manager that I have never had a bad request from. Every card was always answered & nothing ever rejected for a lack of \$\$. I would look to better addressing practices and other problems before trying to defame some operators. — Bob Reed W2CE

DX News Briefs

From August 1 to December 31, 2000 Indian Amateurs have been given permission to use 10.100 to 10.150 MHz & the spot frequencies of 50.350 & 50.55 MHz — VU2JOS



The Sir Francis Drake Report:

XQØX July 2000 op "NIL" (Not In Log?) was a Slim operation. The call was last active in July 1993 — HK3PXA, CE3ESS Apparently so is **OD5CX** as he is not listed in any Lebanon database as an active amateur — OD5MP via PY2WVT. Attempts to QSL some **VKØML** 1991 QSL's are reported by QSL manager VK5AHI as possibly pirated, although he will attempt to verify with the operator when he hears from "Mark" again — NX7U **EP1DX** is another Slim; DF7JA reports alleged manager DL1EL became SK in May. EP1 & EP2 calls have not been issued in 40 years, current calls are EP3- EP9 — DF7JA, K7XM, OE1002419 Another recent bootlegger is **A92V**; A92GE reports that that is not a legal registered callsign in Bahrain — N1FOC

QSL Routes:

EP2MKO via UA6HCW — W7NN	ZVØSB via PT2GTI — VE6TP
EX9A via DF8WS — K6ACZ	9E1C via IV3OWC — WA9ALS
FOØAAA via N7CQQ — KCØFQO	TJ1PD via N5DRV — KCØFQO
5T5U via JA1UT — W5OZI	5K9AQ via HK3PXA — HK3PXA
VK9XY via DH1SGS — K3GV	UU7J via UU6JF — GØWMW
9G5AP via UA3AP — UA3AP	5X1P via G3MRC — MØASJ
3DAØWPX via ZS6WPX — KCØFQO	
WP4Q via EA5RD (KP4CKY is now a SK) — WP4Q	
4X/JM1LJS & E4/JM1LJS via JL2XUN — JM1LJS/T88LJ	

Many DX'ers report that **FR5DX** is a poor QSL'er. However, AB7SL has reported success in asking W3HNK and/or KU9C to forward cards, even though neither is the QSL Manager. — AB7SL

The Far East DX-Ploiters of Japan will send a DXpedition to Spratly island group, Layang Layang to cerebrate their 40th year anniversary of the club as **9MØF** from 12 – 16 September 2000. Two HF stations will operate simultaneously, and the beacon will transmit all the times on 6 meter band. QSL via JA1HGY, Nao Mashita, 8-2-4 Akasaka, Minato, Tokyo 107-0052, JAPAN — JA1HGY

Falklands Island mainstay **VP8WA** has lost his IC-781 and half his beam (a Cushcraft A3 erected by VP8BZL in 1992) in a recent storm. He can not afford to repair his antenna because of the costs — the last time, repairs took 2 days and cost about £600. The big problem is not so much getting a replacement antenna as finding someone willing to climb the 50 foot tower for a reasonable amount — VP8BZL/WA4JQS

K4VUD reports he has gotten a "local Lao man" to translate his **XW1UD** paperwork from Laos and will personally present it to DXCC staff at next month's W9DXCC bash in hopes of getting his operation accepted for DXCC. He is still aiming for an upcoming **A5** operation in December and is looking for "160 men" — K4VUD

Prefixes UA-UI & RA-RZ with division numbers 1, 3, 4 and 6 are allocated to European Russia as from 1994. Prefixes UA-UI and RA-RZ with divisions 8, 9 and Ø are allocated to Asiatic Russia. UA2 is Kaliningrad — ZS6PHD



Allegheny County ARES News

Bob Ferrey Jr. N3DOK,
WPA Public Information Officer
(412) 367-2393 or n3dok@pgh.net

The National Weather Service of Pittsburgh will present a Skywarn Training Class on September 27, 2000. The class will be at the Northland Public Library, 300 Cumberland Rd, Pittsburgh PA 15237. Program starts at 7 PM. All Amateurs and non-Amateurs are invited.

If you do not have a Skywarn Spotters number, You can obtain one by attending this class. If you are a member of Skywarn and have a spotter's number, please attend.

This is a good chance to review and keep up with the Skywarn Program. All radio amateurs & the public are welcome.



DIRECTIONS:

The Northland Public Library is approximately 10 miles north of Pittsburgh on McKnight Road (Truck Route 19). At the 3rd traffic light after Northway Mall, turn left onto Cumberland Road. Northland is on the left at top of second hill. From points north, take Route 19 south toward Pittsburgh. Follow signs for McKnight Road, and at 4th traffic light turn right onto Cumberland Road. If on Perry Highway, turn left onto Cumberland Road at the Sunoco. Directions ask on 147.09 W3EXW, the North Hills Amateur Radio Club Repeater.

A Weather Radio with an alert is highly recommended for every home. Listen on 162.550 MHz. The Allegheny County Skywarn Net is the 1st & 3rd Wednesday at 8:30 PM on the W3EXW/R Repeater, 147.09 MHz.

Skywarn Coordinator for Allegheny County is Don Vollant N3KEH.

Uniontown ARC W3PIE 51st Annual Gabfest Saturday, September 2nd



The Uniontown ARC W3PIE will conduct their 51st Annual on the Saturday of Labor Day Weekend, September 2nd, 2000! Held at the Radio Club Grounds located on Old Pittsburgh Road ~2 miles from PA Route 51 at US 119, Uniontown.

Gates open at 8:00 AM with vendors welcome at any time prior to 8:00 AM. Talk-in provided on the 147.045+ and 147.255+ Repeaters. Free parking available and refreshments available! Door Prizes include a Yaesu FT-90R Dual Band Mobile Radio and a Yaesu VX-150 2 Meter Hand Held Radio. Additional prizes to be announced the day of the Gabfest. For more information contact: Tony Aliviar at 724-430-1277 (Monday thru Friday 8 AM to 4 PM) Carl Chuprko WA3HQK at 304-894-3779

FCC News

ARRL Bulletin courtesy American Radio Relay League

NEWINGTON, CT, Aug 22, 2000 — The FCC has denied a petition that would have amended the FCC's Part 95 rules to permit DXing on the 11-meter Citizens Band. The petition sought to amend §95.413 of the rules that prohibits communications or attempts to communicate with CB stations more than 250 km away and to contact stations in other countries. Designated RM-9807, the petition was filed by *Popular Communications* Contributing Editor Alan Dixon, N3HOE.



"Dixon's request is inconsistent with the purpose of the CB Radio Service and could fundamentally alter the nature of the service," the FCC said in turning down the petition. The FCC action was adopted August 18. The *Order* was released August 21.

The FCC said CB operators generally supported the proposal and stated that the present rule was unenforceable.

The ARRL commented in opposition to the petition, noting that long-distance communication is contrary to the fundamental purpose of the CB Radio Service, and that legalizing it would encourage the use of illegal power amplifiers. "The Amateur Radio Service is the proper forum for the desired long-distance communications sought by the Dixon petition," the League told the FCC.

The National Association of Broadcasters also opposed Dixon's petition. The NAB said that the restriction was necessary to deter CBers from operating at excessive power levels and that consumers must be protected from illegal CB transmissions that interfere with radio, TV and other consumer electronics.

The FCC said it agreed with the ARRL that the CB Radio Service is for short-range personal and business communications and "we note that this purpose has not changed since the service's initial authorization." The FCC acknowledged that long-distance communications do occur inadvertently on 27 MHz, but the Commission did not intend to create a service paralleling the Amateur Service when it authorized the Citizens Radio Service.

"Amending the rules to permit long-distance and international communications would undermine the purpose of the CB Radio Service rules and compromise one of the core distinctions between the CB Radio Service and the Amateur Radio Service," the FCC concluded.

The FCC's Office of Engineering and Technology has issued an experimental license to a California company to set up a wireless Internet system in the San Diego area on 2300 to 2305 MHz. Amateur Radio has a secondary allocation on 2300-2310, the lower segment of the 13 cm band. The experiment would be conducted within a 35-mile radius of San Diego.

Silent Keys



John W. Tukey, who coined "Software" & "Bit," July 26th
Former ARRL Technical Staffer Lew McCoy W1ICP, July 31st
Broadcast Pioneer WMAQ, 670 AM Chicago, August 1st

43rd Annual Pennsylvania QSO Party Official Rules October 14-15 2000

Sponsored by the Nittany Amateur Radio Club, PO Box 614, State College PA 16801

OPERATING PERIODS: 1600Z, October 14 to 0500Z October 15 and 1300Z October 15 to 2200Z October 15,2000

QRV: SSB: 1850+, 3980, 7280, 14280, 21380, 28310, 50.125, 146.55
CW: 40 khz up from the bottom and 1810

Try 160 meters at 0300 Z, (11pm Saturday night) - Band plan below
TECH & TECH PLUS: 28310, 50.125, 146.55

VHF QSOs ARE permitted and encouraged. However, QSOs on 12,17,30 meters are NOT permitted.

MOBILE WINDOW: 5 khz below listed frequencies. Keep clear for mobiles!
Special High Band Activity Periods: Saturday & Sunday: 10m - 1800z; 15m - 1900z; 20m - 2000z SSB on the hour, CW on the half hour!!

Watch your 160M frequencies. The band plan is: 1.800 - 1.830 CW; 1.850 - 2.000 SSB (Keep 1.830-1.850 open for DX QSOs ONLY!)

EXCHANGES: Sequential SERIAL # (number) plus COUNTY or ARRL or RAC (Radio Assoc. Canada) SECTION

Stations on COUNTY LINES will give out ONE serial number per QSO but **all** counties count as multipliers.

Work MOBILES and ROVERS as they change counties.

Stations may be re-worked on different bands and different modes.

SCORING: QSO POINTS: CW QSOs on 160 & 80: 2 points
Other CW QSO's: 1.5 points
SSB & FM QSO's: 1 point

MULTIPLIERS: PA Stations: 67 PA Counties + ARRL Sections + RAC Sections (NOT Nunavut) + 1 DX 152 Total

Out of State Stations: Pennsylvania Counties 67 total

BONUS MULTIPLIERS: QRP (< 5 Watts) x2
Novice / Tech / Tech Plus x3

QRP Novice / Tech / Tech Plus x5

BONUS POINTS: PA Mobiles & Rovers add 500 points for each location operated from (minimum 10 QSO's)

200 Points / QSO with the Special Event Station (below)

FINAL SCORE: Total Points x Multipliers x Bonus Multipliers + Bonus Pnts.

Explanation of Multipliers: The following constitute multipliers in the Party:

The 67 Counties of the Commonwealth of Pennsylvania

The 72 ARRL Sections as listed in QST (Add WCF - West Central Florida)

The 13 Canadian Provinces or areas. (Nunavut is NOT a multiplier.)

One 1 DX multiplier - only 1 - do NOT include DX stations which are part of ARRL sections (Pacific, KP2, KP4)

152 total multipliers — Now there is a "Clean Sweep" to shoot for - NO ONE HAS EVER DONE IT!

ROVER Division: The ROVER division is intended for those who can not go true mobile but would like to activate some rare counties by going to a State Park or farmer's field and throwing up a dipole or a 5 element beam on 2 meters. General rules: Go as many places as you want; you must use a portable antenna; you must move to a new county; and you must travel a minimum of 5 miles between locations, you must make 10 QSOs from each location to qualify for the 500 point bonus. Identify by using /R on CW or "rover" on SSB or FM.. (Remember that "Billy" Penn in his infinite wisdom placed many of the Pennsylvania County Lines on TOP OF MOUNTAINS - great for two meter DX and giving out rare counties during the Party!

SPECIAL EVENT STATION: Each year, a different Pennsylvania Club will set up and operate a special event station as part of the Party. This year, The Nittany Amateur Radio Club in recognition of their long time support for the QSO Party, will man the designated special event station using the call, **W3YA**. Add 200 POINTS for EACH QSO with the special event station.- these are added AFTER all other bonus' have been taken.

ENTRY DIVISIONS: Single Operator, Medium Power, EPA (<150 Watts)

Single Operator, Medium Power, WPA

Single Operator, High Power, EPA

Single Operator, High Power, EPA (> 150 Watts)

Single Operator, High Power, WPA

QRP (< 5 Watts) Intended for those who are indeed using QRP equipment!

Multi Operator Single Transmitter (ONLY one signal at a time!)

Multi Operator Multi Transmitter

Portable (Single op or multi-single only)

Novice/Tech/Tech Plus

Mobile: May be single op or multi-single only (NOT Multi-Multi)

Rover

CW Only - Single Operator - power limited to 150 watts ONLY

NOTE: If you use both VHF and HF, the VHF transceiver does NOT make you multi-multi! But, you can only have one signal at a time!

See Pennsylvania QSO Party Home Page for plaque sponsors!

PLAQUES: To top scores in ALL ENTRY DIVISIONS (above)

Top single op EPA & WPA - medium power.

Top CANADIAN entry

Top Single operator from the EASTERN, CENTRAL, MOUNTAIN, and Pacific Time Zones

QRP Out-of-State if enough entries

"Worked all 67" (see below)

CERTIFICATES: to all county, section and DX winners.

TROPHY to club with top aggregate score (Club membership chairman MUST submit current roster of members for all club awards.)

"WORKED ALL 67" PLAQUES: Stations working all 67 counties during the Party. QSOs will be verified by the committee from log information. To order, submit a special summary sheet AND YOUR LOG ON A COMPUTER DISK! (in addition to your regular entry summary) listing county, call of station worked, date and time of QSO, and numbers sent and received. Enclose a Check for \$25.00 payable to "The Nittany Amateur Radio Club".

PARTICIPATION COFFEE MUGS: Anyone who makes 100 QSOs or more during the Party is eligible for a handsome PA QSO Party Coffee Mug. To order, include your log showing 100 QSOs and a check for \$9.50 made payable to "The Nittany Amateur Radio Club".

SPECIAL PLAQUE FOR FIRST TIME ENTRANT FROM PENNSYLVANIA: Intended to encourage new contestants, a plaque will be awarded to the top single operator entry from Pennsylvania who enters the Party for the first time. (Not intended for "Big Guns" from other contests! Be honest there, Abe!

ENTRY SUBMISSIONS: Computer Disks are the preferred method of entry!!

Printed log not required but they must include a summary sheet and a list of multipliers worked. Paper entries must include the log sheets, a summary sheet, and dupe sheets (if more than 100 QSOs made per band/mode). Log sheets must show Band, Mode, Time, Full Exchange, Call & QTH received. Send the ".txt", ".log" or ".prn" files from your program - not the ".QDF" file from NA. It is recommended that an OFFICIAL SUMMARY SHEET be included with each entry. In addition to normal name/address/phone etc., (Official Summary Sheet is downloadable.) SUMMARY SHEETS MUST include the following: Class of entry, power level, & whether a home/portable/mobile/ or rover station; County and section; Pennsylvania Club Affiliation; Time zone in which you reside; Number of QSOs on 160/80 CW; Other CW QSOs; SSB QSOs; Number of Counties, Sections, and DX worked; Specifics of QSOs with Special events station; Summary of your bonus points taken.

SEND LOGS by November 15 to: Nittany Amateur Radio Club, P.O. Box 614, State College, Pa. 16804-0614

E-Mail logs will be accepted FROM OUT OF STATE STATIONS ONLY. Send as an e-mail attachment to "na2x@arrl.net". DO NOT send the ".qdf" file. A donation of \$1.00 OR TWO with your entry to help defray the costs of mailing, printing, etc. would be greatly appreciated. Please, no SASE - they only get lost!!!

INFORMATION PACKET including complete rules, summary form, record high scores, and a list of county/sections is available. Send request to NARC, PO Box 614, State College PA 16804-0614

Inside This Issue:

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- The FCC's ruling on the CB DX petition!
- Skywarn Training on September 27th!
- PA QSO Party Rules!

All that and more... and you're waiting for...?

The *WASHRag*
Ron Notarius WN3VAW, Editor
3505 Rosalia Avenue
Castle Shannon, PA 15234-2317



New Equipment This Fall!

Above: Vertex Standard (Yaesu) FT-817 HF/VHF/UHF all mode 5W QRP portable transceiver at its debut in Japan on August 18th

Photo courtesy of Ramon Santoyo V. XE1KK

Below: Prototype of the Ten Tec 538 Jupiter (was the Pegasus FP?)

Photo courtesy of and ©Copyright 2000 Ten-Tec Inc.

